READ INSTRUCTIONS CAREFULLY BEFORE PROCEEDING

APR 1 5 2019

US BANK/FOC

FEDERAL COMMUNICATIONS COMMISSION REMITTANCE ADVICE
FORM 159



1404124080401401

Approved by OMB 3060-0589 Page No 1 of 2

(1) LOCKBOX #				SPECIAL USE ONLY	
979089				FCC USE ONLY	
	SECTION A – I	PAYER INFORMATION	ON		
(2) PAYER NAME (if paying by credit ca				UNT PAID (U.S. Dollars and cents)	
Bristol Broadcasting Com	pany, Inc.		\$725.00		
(4) STREET A DDRESS LINE NO.1					
901 East Valley Drive (5) STREET ADDRESS LINE NO. 2					
(3) STREET ADDRESS LINE NO. 2					
(6) CITY			(7) STATE	(8) ZIP CODE	
Bristol	2 1 1	L (10) COLDEBNI	VA	24201	
(9) DAYTIME TELEPHONE NUMBER (276-669-8112	include area code)	USA	CODE (if not in U.S.	.A.)	
270-003-0112	FCC REGISTRATION		QUIRED		
(11) PAYER (FRN)		(12) FCC USE	ONLY		
0002071504					
	F MORE THAN ONE APPLICANT, I				
(13) APPLICANT NAME	ION BELOW FOR EACH SERVICE,	IF MURE BUXES AN	LE NEEDED, USE (CONTINUATION SHEET	
Bristol Broadcasting Com	pany, Inc.				
(14) STREET ADDRESS LINE NO.1					
901 East Valley Drive (15) STREET ADDRESS LINE NO. 2					
(15) STREET ADDRESS LINE NO. 2					
(16) CITY			(17) STATE	(18) ZIP CODE	
Bristol			VA	24201_	
(19) DAYTIME TELEPHONE NUMBER	(include area code)	(20) COUNTRY	CODE (if not in U.S.	A.)	
276-669-8112	FCC REGISTRATION		COURED		
(21) APPLICANT (FRN)	PCC REGISTRATIO	(22) FGC USE			
0002071504					
COMPLETE SE	CTION C FOR EACH SERVICE, IF	MORE BOXES ARE	NEEDED, USE CO	NTINUATION SHEET	
(23A) CALL SIGN/OTHER ID	(24A) PAYMENT TYPE COL	DE	(25A) QUANTITY		
WSNQ(AM)	MMR		1		
(26A) FEE DUE FOR (PTC)	(27A) TOTAL FEE		FECUSEONLY		
\$725.00		\$725.00			
(28A) FCC CODE I		(29A) FCC CODE 2			
(23B) CALL SIGN/OTHER ID	(24B) PAYMENT TYPE COL)F	(25B) QU	IANTITY	
(23b) Ortob bloth of Heli 15	(24B)7777111111111111111111111111111111111		(231) QU	7011111	
(26B) FEE DUE FOR (PTC)	(27B) TOTAL FEE		FCCUS	SE ONLY	
(28B)FCC CODE I		(29B) FCC CODE 2			
	SECTION D	- CERTIFICATION			
CERTIFICATION STATEMENT	certify under penalty of perjury that	at the foregoing and sup	porting information	is true and correct to	
the best of my knowledge, information and		5 mg			
SIGNATURE	20		DATE_ 4	-5-19	
	SECTION E - CREDIT CA	ARD PAYMENT INFO	ORMATION		
	MASTERCARD VISA				
A COOLDINATE AND				_	
ACCOUNT NUMBER		EXPIRATIO	N DATE		
I hereby authorize the FCC to charge my co	redit card for the service(s)/authorization	herein described.			
SIGNATURE			DATE		

Approved by OMB 3060-0627 Expires 01/31/98

FOR FCC USE ONLY

FCC 302-AM APPLICATION FOR AM BROADCAST STATION LICENSE

(Please read instructions before filling out form.

FOR COMMISSION USE ONLY	
FILE NO.BL-20190415ABI	

SECTION I - APPLICANT FEE INFORMATION			
PAYOR NAME (Last, First, Middle Initial)			
Bristol Broadcasting Company, Inc.			
MAILING ADDRESS (Line 1) (Maximum 35 characters) 901 East Valley Drive			
MAILING ADDRESS (Line 2) (Maximum 35 characters)			
CITY Bristol	STATE OR COUNTRY (if foreig	ın address)	ZIP CODE
TELEPHONE NUMBER (include area code) 276-669-8112		THER FCC ID	ENTIFIER (If applicable)
2. A. Is a fee submitted with this application?			✓ Yes No
C. If Yes, provide the following information: Enter in Column (A) the correct Fee Type Code for the service you	are applying for Fee Time O-d-	a man ha fa	d in the made of the control of the
Enter in Column (A) the correct Fee Type Code for the service you Fee Filing Guide." Column (B) lists the Fee Multiple applicable for th (A) (B) FEE TYPE FEE MULTIPLE	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	s may be found lue in Column (d in the "Mass Media Service"). FOR FCC USE ONLY
Enter in Column (A) the correct Fee Type Code for the service you Fee Filing Guide." Column (B) lists the Fee Multiple applicable for th (A) (B) FEE TYPE FEE MULTIPLE	(C) FEE DUE FOR FEE TYPE CODE IN	s may be found lue in Column ((C).
Enter in Column (A) the correct Fee Type Code for the service you Fee Filing Guide." Column (B) lists the Fee Multiple applicable for th (A) (B) FEE TYPE FEE MULTIPLE	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A) \$ 725.00	lue in Column (FOR FCC USE ONLY
Enter in Column (A) the correct Fee Type Code for the service you Fee Filing Guide." Column (B) lists the Fee Multiple applicable for the (A) (B) FEE TYPE CODE M M R (B) FEE MULTIPLE 0 0 0 1	(C) FEE DUE FOR FEE TYPE CODE IN COLUMN (A) \$ 725.00	lue in Column (FOR FCC USE ONLY

US BANKIFCC

0002071504

SECTION II - APPLICAN	TINFORMATION					
NAME OF APPLICANT Bristol Broadcasting Com	pany, Inc.					
MAILING ADDRESS 901 East Valley Drive						
CITY Bristol			STATE VA		ZIP CODE 24201	
2. This application is for:	Commercial AM Direct	tional	Noncomm	nercial on-Directional		
Call letters	Community of License	Construct	ion Permit File No.	Modification of Construction	Expiration Date of	Last
WSNQ	Marion	BP-20	170525AMX	Permit File No(s).	Construction Perm 1/11/2021	it
Is the station no accordance with 47 C.F. If No, explain in an Exhi		to auto	matic program	test authority in	Yes	No
4. Have all the terms construction permit been	s, conditions, and oblig n fully met?	ations s	et forth in the	above described	Yes Exhibit No.	No
If No, state exceptions in	n an Exhibit.					
5. Apart from the changes already reported, has any cause or circumstance arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect?					No	
If Yes, explain in an Exl	nibit.				Exhibit 140.	
					No	
If No, explain in an Exhil	bit.				Exhibit No.	
or administrative body was criminal proceeding, brofelony; mass media re	ing been made or an advith respect to the applications ught under the provision elated antitrust or unfair or discrimination?	ant or par s of any	rties to the appli law relating to tl	cation in a civil or ne following: any	Yes √	No
involved, including an id (by dates and file numl information has been required by 47 U.S.C. So of that previous submiss the call letters of the st	ttach as an Exhibit a full track as an Exhibit a full track as an Exhibit a	or admini on of the nnection ant need file numl e applica	strative body an litigation. Whe with another a only provide: (in only provide: (in the case of the ca	d the proceeding tere the requisite application or as an identification of an application, 1.65 information	Exhibit No.	

8. Does the applicant, or any party to the application, have a the expanded band (1605-1705 kHz) or a permit or license expanded band that is held in combination (pursuant to the 5	either in the existing bar	nd or
with the AM facility proposed to be modified herein?		
If Yes, provide particulars as an Exhibit.		Exhibit No.
T		
The APPLICANT hereby waives any claim to the use of any against the regulatory power of the United States because requests and authorization in accordance with this application amended).	e use of the same, who	ether by license or otherwise, and
The APPLICANT acknowledges that all the statements material representations and that all the exhibits are a material		
CERTIFIC	CATION	
 By checking Yes, the applicant certifies, that, in the case or she is not subject to a denial of federal benefits that include to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U. case of a non-individual applicant (e.g., corporation, partner association), no party to the application is subject to a definctudes FCC benefits pursuant to that section. For the depurposes, see 47 C.F.R. Section 1.2002(b). I certify that the statements in this application are true, coand are made in good faith. 	udes FCC benefits pursu. S.C. Section 862, or, in ship or other unincorpora enial of federal benefits finition of a "party" for the	uant the ated that ese
		7
Roger Bouldin	Signature	22
Title Corporate Secretary/Director	Date 12/15/2018	Telephone Number 423-794-0857
	12/15/2018 E PUNISHABLE BY FII	NE AND/OR IMPRISONMENT

CONSTRUCTION

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Your response is required to obtain the requested authorization.

Public reporting burden for this collection of information is estimated to average 639 hours and 53 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0627), Washington, D. C. 20554. Do NOT send completed forms to this address.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

SECTION III - LICENSE APPLICATION ENGINEERING DATA							
Name of Applica		Company,	Inc				
		N APPLIED FOR					
7 314 332 31 7	io monib mo	WALLED TON	. (Great Gre)				
	Station License		Direct Me	asurement of Power			
1. Facilities auth							
Call Sign	File No. of Co (if applicable)	nstruction Permit	' '	Hours of Operation	on .		n kilowatts
WSNQ	BP-20170525	AMX	(kHz) 1330	Daytime		Night -0-	Day 1.0
2. Station location	on						
State				City or Town			
Virginia				Marion			
3. Transmitter lo	cation						
State	County			City or Town		Street address	
VA	Smyth			Marion	,	(or other identific	,
				IVIAITOTI		1041 Radio H	ill Road
4. Main studio lo						Street address	
State	County			City or Town		(or other identific	cation)
VA	Smyth			Marion		1041 Radio Hill	
5. Remote contr	ol point location	(specify only if a	uthorized direction	nal antenna)			
State	County			City or Town		Street address (or other identific	cation)
7. Does the sam		eet the requirement				✓	Not Applicable
8. Operating cor	nstants:						
RF common poir modulation for ni N.A.	nt or antenna cu	rrent (in amperes) without	RF common point modulation for day 2.45 amperes		current (in amper	es) without
Measured antenna or common point resistance (in ohms) at operating frequency Night Day N.A. Measured antenna or common point reactance (in ohms) at operating frequency Night Day N.A. N.A. N.A. +i25.1							
	ome for direction			N.A.		+j25). I
Antenna indication	ons for direction	ai operation Antenna	monitor	Antenna monito	or sample		
Towers Phase reading(s) in degrees			current ratio(s) Antenna base currents		pase currents		
		Night	Day	Night	Day	Night	Day
Manufacturer and	d type of antenn	a monitor:					

SECTION III - Page 2

9.	Descriptio	n of antenna s	system ((f directional	antenna is used	, the information	requested below	should be give	en for each element of
the	e array. Us	e separate sh	eets if necessary.)					

Type Radiator Self-Supporting Steel Tower	Overall height in meters of radiator above base insulator, or above base, if grounded. 74.68	Overall heigh above ground obstruction lig	l (without	Overall height in meters above ground (include obstruction lighting) 76.6	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. Exhibit No. N.A.
	Series to nearest second. For direct	Shunt stional antenna	give coordina	tes of center of array. For si	ngle vertical radiator give
North Latitude 36	° 51 ' 2	2 "	West Longitu	ude 81 ° 30	' 18 "
Also, if necessary for a dimensions of ground sy	ove, attach as an Exhibit further and associated isolation of a complete description, attackstem.	ircuits. ch as an Exhi	bit a sketch	of the details and	Exhibit No. Exhibit # 1 Exhibit No.
Apparatu 11. Give reasons for the	s constructed as de change in antenna or comme struction - New dipl	escribed i	n applica	tion for construction	
	the applicant in the capacity true to the best of my knowle			have examined the foregoin	ng statement of technical
Name (Please Print or T	ype)	5	Signature (che	ck appropriate box below)	
Address (include ZIP Code) 901 East Valley Drive Bristol, Virginia 24201 Telephone No. (Include Area Code) 423-794-0857					
✓ Technical Director			Registere	ed Professional Engineer	
Chief Operator			Technica	I Consultant	
Other (specify)					

FCC 302-AM (Page 5) August 1995

9.1700

FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

90) Fact Valley Do	
901 East Valley Dr	
"Bristol, VA 24203	

Re: FRN 0002071504
Call Sign/ID
FCC Code #1
FCC Code #2

Dear FCC Customer:	
Re: Return of Unprocessable	Application
This is to notify you that your application	on package is being returned for the following reasons:
() No application/filing accompanied y	our submission.
() No remittance accompanied your sul	omission. Please refer to the appropriate Fee Filing Guide
() The remittance for payment type cod	leis now \$
() Your check is not acceptable for this	reason
() Multiple checks for a single application	on are not accepted, please send one check for \$
() No remittance advice (FCC Form 15	9) accompanied your submission.
() The payment type code is needed.	
() The remittance advice form (FCC Fo	rm 159) is incomplete.
() The credit card section of FCC Form	159 Remittance Advice needsExpiration dateSignature.
() Block 3 must be completed (please er	iter \$) to authorize a credit charge, only the credit card holder can
complete this item.	
() Your credit card was denied by Autho	orizations; please confirm or correct card number.
() Your credit card was declined; if any	question, please contact bank that issued card.
() The FCC Form 159, Remittance Advinformation.	ce, used is obsolete. Please use the July 2005 edition. See enclosed Public Notice for further
() The Payer/Applicant FCC Registration your filing. See enclosed News Release for	n Number (FRN) is missing from the Form 159. This number is required in order to process or further assistance.
block of the FCC Form 159. Payment mapplication to avoid dismissal. If payment	ed application cannot be processed without the confirmation number in the FCC Code 2 must be received within 10 business days from the receipt date of your electronically filed ent is not received within 10 days, you must file another electronically filed application, nich includes the required confirmation number, and send another payment.
AOther. FCC Form requ	ires a hand written signature for the certification statement resubmit
Please refer to the enclosed Fee Filing Gui payment to the appropriate P.O. Box in St	de for further instructions, and mail your corrected application, remittance advice form and
If you have further questions, please conta	ct the FCC at 202-418-1995.
	Sincerely,
Enclosures:	FCC Financial Operations
Filing Guide Check/Credit Card(s) # \$	1 Boen o
CIRCUM CICUIL CRIMATE	

Rec'd in P.O. Box #

FCC Form(s)

979084

FEDERAL COMMUNICATIONS COMMISSION Washington, DC 20554

40 Box 13	89	
Bristol,	VA	24203

Re: FRN	
Call Sign/ID_	WSNQ
FCC Code #1_	
FCC Code #2	

Dear FCC Customer:		·
Re: Return of Un	aprocessable Application	
This is to notify you that yo	our application package is being returned for the following reasons:	
() No application/filing ac	companied your submission.	
() No remittance accompa	nied your submission. Please refer to the appropriate Fee Filing Guide	
	nent type code is now \$	
	table for this reason	
	agle application are not accepted, please send one check for \$	
	CC Form 159) accompanied your submission.	<u></u>
		<u>.</u>
(A) The payment type code i		
	orm (FCC Form 159) is incomplete.	
() The credit card section of	f FCC Form 159 Remittance Advice needsExpiration dateS	ignature.
() Block 3 must be complet	ted (please enter \$) to authorize a credit charge, only the credit	card holder can
complete this item.		
() Your credit card was den	ied by Authorizations; please confirm or correct card number.	
() Your credit card was decl	lined; if any question, please contact bank that issued card.	
	uttance Advice, used is obsolete. Please use the July 2005 edition. See enclo	sed Public Notice for further
(-) The Payer/Applicant FCC your filing. See enclosed Nev	Registration Number (FRN) is missing from the Form 159. This number is ws Release for further assistance.	required in order to process
application to avoid dismiss.	onically filed application cannot be processed without the confirmation. Payment must be received within 10 business days from the receipt date al. If payment is not received within 10 days, you must file another election or m 159, which includes the required confirmation number, and send a	e of your electronically filed
() Other.		
Please refer to the enclosed Fe payment to the appropriate P.0	ee Filing Guide for further instructions, and mail your corrected application, r O. Box in St. Louis, MO.	emittance advice form and
If you have further questions,	please contact the FCC at 202-418-1995.	
	Sincerely,	
	Sincerely, FCC Financial Operations	
Enclosures:		
Enclosures: Filing Guide Check/Credit Card(s) #		



P. O. Box 1389 Bristol, Virginia 24203 Phone (276)-669-8112 • Fax (276)-669-0541

December 22, 2019

Federal Communications Commission Media Bureau P. O. Box 979089 St. Louis, MO 63197

Re: WSNQ(AM) (Facility ID # 19478) at Marion, Virginia

Licensee: Bristol Broadcasting Company, Inc. Application for License – FCC Form 302-AM

Dear Ladies and Gentlemen:

Enclosed herewith are an original and three copies of an Application for AM Broadcast Station License (FCC Form 302) filed on behalf of Station WSNQ(AM) at Marion, Virginia.

Also enclosed is a check in the amount of \$725 to cover the requisite filing fee.

Finally, enclosed is a "Return Copy" of this filing to be date-stamped and returned in the accompanying stamped envelope.

Should you have any questions regarding this request, please contact me by email at roger@wxbq.com or via telephone at 423-794-0857.

Respectfully,

Roger Bouldin General Manager

Hasler FIRST-CLASS MAIL 04/05/2019 \$002.209







ZIP 24201 011E10673733





Federal Communications Commission Media Bureau P. O. Box 979089 St. Louis, MO 63197-9000

US BANKFOC

WSNQ(AM) at Marion, Virginia (Facility ID # 19478) Licensee – Bristol Broadcasting Company, Inc. Application for Station License

Exhibit 1

Construction of the facilities authorized by Construction Permit # BP-20170525AMX has been completed. The apparatus constructed is in all regards in compliance with the facilities described in the Construction Permit.

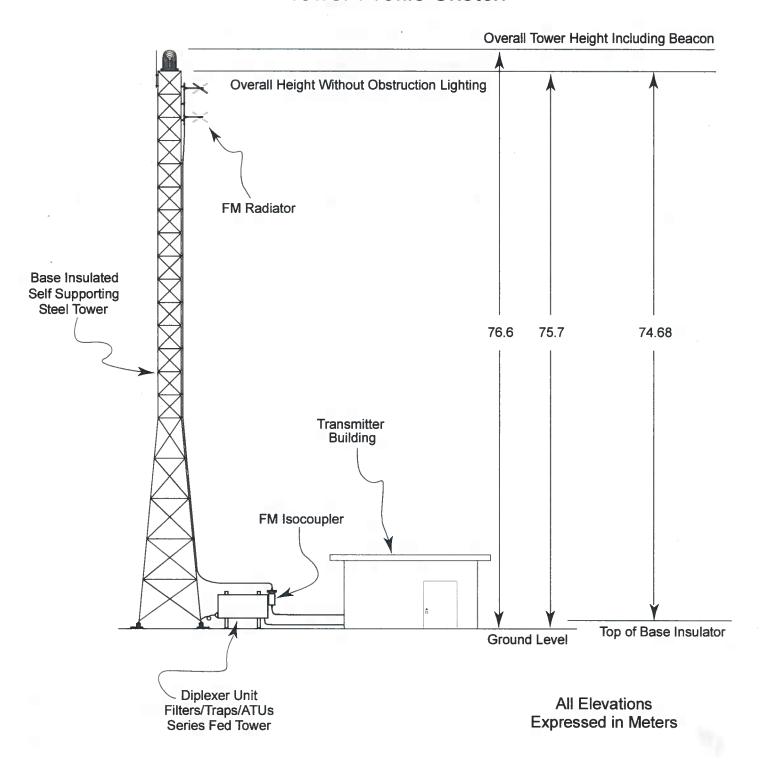
Attached hereto is an engineering report completed by Robert Elder, Senior Field Engineer with Compliance Matters, Inc., detailing measurements and tests completed to demonstrate the adequacy of filters, traps and other equipment that have been installed and adjusted to prevent interaction, intermodulation and/or generation of spurious radiation products which might have been caused by common usage of the same antenna system by Stations WSNQ and WUKZ (FCC Facility ID # 63710). Data is included from field observations showing that no spurious emissions exist and no objectionable problems have resulted from the use of the common antenna. Antenna resistance for was measured for each station (WSNQ and WUKZ) and is documented in the report.

An FCC Form 302 is also concurrently being filed notifying the Commission of the return to direct measurement of power by WUKZ.

Since both WSNQ and WUKZ are commonly owned, total responsibility for the installation and maintenance of all equipment and for the elimination of all spurious emissions and/or any objectionable problems shall be borne by Bristol Broadcasting Company, Inc.

Also attached hereto is a Profile Sketch of the Antenna Tower.

Tower Profile Sketch





Engineering Report

 $\frac{WUKZ - 1010 \text{ kHz}, 1.0 \text{ kW}}{WSNQ - 1330 \text{ kHz}, 1.0 \text{ kW}}$

Marion, VA

Report on
Field Engineering Site Visit
19 September 2018

Robert A. Elder

Sr. Field Engineer, Compliance Matters, Inc.

20 September 2018

Executive Summary

Radio station WSNQ – AM ($1.0 \, kW$, $1330 \, kHz$ - formerly WITM at $5.0 \, kW$) was granted a Construction Permit in January of this year to be diplexed with WUKZ – AM ($1.0 \, kW$, $1010 \, kHz$) at the existing WUKZ transmitter site. Following the design and installation of the appropriate antenna matching and filter networks, the resulting diplexing system was field tuned for the simultaneous operation of the two stations.

A sweep of impedance measurements was taken at the final output J-plug just before the tower feed for both carrier frequencies and their respective sidebands. For each station, an impedance measurement sweep was taken at the J-plug corresponding to the point of base current measurement. After final tuning of each matching network, the input impedance and SWR were measured at the respective carrier and sideband frequencies.

Based on the impedance measurements on the carrier frequencies for each station, the nominal full power current has been calculated, along with the +5% and -10% tolerance limit values.

Finally, the absence of spurious signals at the intermodulation product frequencies which could result from interactions between the two transmitting frequencies was verified through a series of signal strength measurements taken at a distance of 1.0 km from the antenna.

The data collected in the present report as described above are intended for use in supporting the required filing of the FCC 302-AM form to report the Direct Measurement of Power for each station.

Data

Measurements of impedance were made with an HP-8753C Network Analyzer in conjunction with an ENI 350L RF Amplifier and Tunwall Radio directional coupler in a calibrated setup.

Tower Impedance measurements were made at the final output J-plug to the common tower feed. Measurements of the matching network output point were made at carrier and sideband frequencies. The respective measurements on the carrier frequencies are to be reported on the FCC 302-AM form. The final input match impedance sweep measurements were made at the respective input J-plugs at the ATU cabinet after tuning was complete.

A. WUKZ – 1.0 kW (daytime only)

Freq. (kHz)	Tower Impedance	Output Impedance	Input Impedance	<u>SWR</u>
995	23.2 - j8.4	40.0 - j1.3 $40.9 + j1.2$ $42.0 + j3.6$	47.2 + j6.6	1.160
1000	22.8 - j8.7		48.6 + j4.6	1.102
1005	22.4 - j9.0		49.6 + j2.3	1.049
1010	21.7 - j9.3	43.1 + j6.0	50.0 - j0.1	1.002
1015	20.7 – j9.6	44.1 + j8.6	49.8 - j2.6	1.054
1020	19.5 – j9.8	45.3 + j11.0	49.0 - j5.0	1.108
1025	18.1 – j9.8	46.5 + j13.5	47.8 - j7.2	1.166

Base Current Calculations

The licensed power level for WUKZ is 1,000 W for daytime operation, with no operation at night. The FCC allows operation within the range of 10% below to 5% above the nominal power level values.

<u>Operation</u>	<u>Level</u>	Power (W)	Current (A)
Daytime	- 10%	900	4.57
	Nominal + 5%	1,000 1,050	4.82 4.94

For purposes of reporting Direct Measurement of Power to the FCC, the base impedance is 43.1 + j6.0 Ohms, and the nominal base current at full nominal power is 4.8 Amps for daytime operation.

Measurement of Spurious Emissions at Intermodulation Product Frequencies

Measurements of signal strength were made at an unencumbered location (free of overhead wires or other interferences) at a distance of 1.02 km from the WUKZ/WSNQ tower. GPS coordinates of the measurement point are: N 36 50 49.37; W 081 30 16.02 (using Google Earth to identify measurement location). The signal strength measurements were taken with a Potomac Instruments FIM-41 meter, S/N 1952, last calibrated 13 June 2018.

The measurements of the unmodulated signal strength on the respective carrier frequencies are shown below, as are those at the intermodulation frequencies with both stations transmitting with full audio modulation. All measurements fell below the required limits of signal strength relative to the respective carrier signals, with the exception of other local stations whose audio broadcast signals were readily identified, as noted in the chart below.

Field Strength Measurements at Intermodulation Product Frequencies and Calculated Strengths Relative to Carriers in dB

	on	

	Call letters	Frequency	Unmod. Carrier reading (mV/m)
4	WUKZ	1010	250
3	WITM	1330	250

Date and Time of measurements:

Intermod Frequency	Origin	Reading	relative to 1010 (dB)	relative to 1330 (dB)
640	2B - 2A	0.5000 see note 1	-54.0	-54.0
690	2A - B	1.2000 see note 2	-46.4	-46.4
1650	2B - A	0.1200 see note 3	-66.4	-66.4
1700	3A - B	0.0010 see note 4	-108.0	-108.0
1970	3B - 2A	0.0010	-108.0	-108.0
2020	2A	0.0010	-108.0	-108.0
2340	A + B	0.0100	-88.0	-88.0
2660	2B	0.0120	-86.4	-86.4
2710	4A - B	0.0120	-86.4	-86.4
2980	3B - A	0.0010	-108.0	-108.0
3350	2A + B	0.0010	-108.0	-108.0
3670	A + 2B	0.0010	-108.0	-108.0
4310	48 - A	0.0010	-108.0	-108.0
4360	3A + B	0.0010	-108.0	-108.0
4680	2A + 2B	0.0010	-108.0	-108.0
5000	A + 3B	0.0010	-108.0	-108.0
Limit:			-80	-80

NOTES:

- 1 WXSM AM is a local station (Biountville, TN) operating on 640 kHz
- WZAP AM is a local station (Bristol, VA) operating on 690 kHz
- 3 WBCN AM is a translator station for 94.7 from Charlotte, NC, operating on 1660 kHz
- 4 For this and most of the remaining frequencies, there was no meter movement; the data for these show 1 microvolt/meter